

THE INTERNATIONAL PHONETIC ALPHABET (revised to 1993)

CONSONANTS (PULMONIC)

	Bilabial	Labiodental	Dental	Alveolar	Postalveolar	Retroflex	Palatal	Velar	Uvular	Pharyngeal	Glottal
Plosive	p b			t d		ʈ ɖ	c ɟ	k ɡ	q ɢ		ʔ
Nasal	m	ɱ		n		ɳ	ɲ	ŋ	ɴ		
Trill	ʙ			ʀ					ʀ		
Tap or Flap				ɾ		ɽ					
Fricative	ɸ β	f v	θ ð	s z	ʃ ʒ	ʂ ʐ	ç ʝ	x ɣ	χ ʁ	ħ ʕ	h ɦ
Lateral fricative				ɬ ɮ							
Approximant		ʋ		ɹ		ɻ	j	ɰ			
Lateral approximant				l		ɭ	ʎ	ʟ			

Where symbols appear in pairs, the one to the right represents a voiced consonant. Shaded areas denote articulations judged impossible.

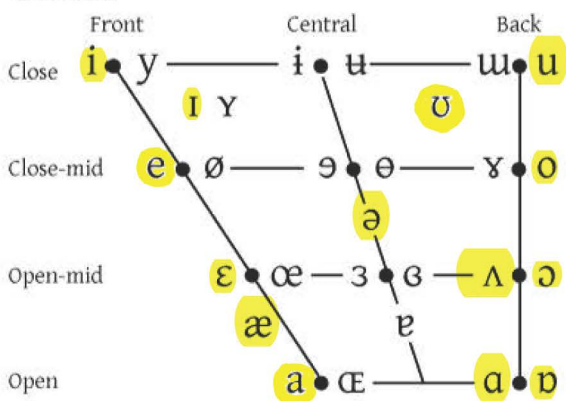
CONSONANTS (NON-PULMONIC)

Clicks	Voiced implosives	Ejectives
◌ Bilabial	ɓ Bilabial	ʼ as in:
◌ Dental	ɗ Dental/alveolar	p' Bilabial
◌ (Post)alveolar	ɟ Palatal	t' Dental/alveolar
◌ Palatoalveolar	ɠ Velar	k' Velar
◌ Alveolar lateral	ɣ Uvular	s' Alveolar fricative

SUPRASEGMENTALS

	TONES & WORD ACCENTS
ˈ Primary stress	LEVEL
ˌ Secondary stress	ˈ Extra high
ː Long	˨ High
ˑ Half-long	˨˨ Mid
◌ Extra-short	˩ Low
◌ Syllable break	˩˩ Extra low
◌ Minor (foot) group	↓ Downstep
◌ Major (intonation) group	↑ Upstep
◌ Linking (absence of a break)	↗ Global rise etc.
	↘ Global fall

VOWELS



Where symbols appear in pairs, the one to the right represents a rounded vowel

OTHER SYMBOLS

- ɱ Voiceless labial-velar fricative
- ɸ Voiced labial-velar fricative
- ɰ Voiced labial-velar approximant
- ɲ Voiced labial-palatal approximant
- ħ Voiceless epiglottal fricative
- ʕ Voiced epiglottal fricative
- ʔ Epiglottal plosive
- ɻ Alveolo-palatal fricatives
- ɽ Alveolar lateral flap
- ʎ Simultaneous ʃ and x
- ɰ Affricates and double articulations can be represented by two symbols joined by a tie bar if necessary

kp̚ ts̚

DIACRITICS

Diacritics may be placed above a symbol with a descender, e.g. ɲ̥

◌ Voiceless	◌ Breathy voiced	◌ Dental
◌ Voiced	◌ Creaky voiced	◌ Apical
◌ Aspirated	◌ Linguolabial	◌ Laminal
◌ More rounded	◌ Labialized	◌ Nasalized
◌ Less rounded	◌ Palatalized	◌ Nasal release
◌ Advanced	◌ Velarized	◌ Lateral release
◌ Retracted	◌ Pharyngealized	◌ No audible release
◌ Centralized	◌ Velarized or pharyngealized	
◌ Mid-centralized	◌ Raised	
◌ Syllabic	◌ Lowered	
◌ Non-syllabic	◌ Advanced Tongue Root	
◌ Rhoticity	◌ Retracted Tongue Root	